RAD TORQUE SYSTEMS

V-RAD USER MANUAL

LEADING MANUFACTURER OF ADVANCED TORQUE SYSTEMS

NEW WORLD TECHNOLOGIES INCORPORATED

THE INDUSTRY STANDARD...BELIEVE IT!

ELECTRIC SERIES (V-RAD)

Torque Range
100-2300 ft. lbs.

- ✔ **Quick adjust torque settings**
  Fast and accurate “dial a torque” for maximum versatility and efficiency
- ✔ **Soft-start vary speed trigger**
  Allows operator to safely and quickly set reaction arm before full torque is applied
- ✔ **Equal power in forward and reverse**
  Convenience and cost effective use of same tool for break away and final torque
- ✔ **Advanced ultra-durable electric motor design**
  Extreme duty designed to reduce maintenance cost and increase reliability
- ✔ **Advanced gearbox design**
  PATENTED planetary gear reduction drive system delivering one of the highest power-to-weight ratios of any controlled bolting system

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ELECTRIC SERIES (E-RAD)

Torque Range
200-3000 ft. lbs.

- ✔ **Push-button select torque**
  Fast and convenient error-free digital single increment torque settings
- ✔ **Digital torque console display**
  Maximum accuracy by seeing the set torque value and the actual delivered torque value
- ✔ **Lightweight and Ergonomic pistol grip design**
  Advanced low-profile handle to reduce operator fatigue and increase productivity
- ✔ **Extremely low noise level only 75db**
  World’s quietest extreme torque gun, ideal for sensitive environments and standards
- ✔ **LED Green (Pass) or Red (Fail) indicator lights**
  Unmistakable visual signal indicates status of torque procedure for maximum accuracy and speed

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BATTERY SERIES

Torque Range
100-1300 ft. lbs.

- ✔ **Quick adjust torque settings**
  Fast and accurate “dial a torque” for maximum versatility and efficiency
- ✔ **Soft-start vary speed trigger**
  Allows operator to safely and quickly set reaction arm before full torque is applied
- ✔ **Equal power in forward and reverse**
  Convenience and cost effective use of same tool for break away and final torque
- ✔ **Imagine the freedom – no air lines, no power cords!**
  The lightweight design of the B-SERIES makes them ideal for any application, especially where compressed air and electricity are not readily available.
- ✔ **Advanced gearbox design**
  PATENTED planetary gear reduction drive system delivering one of the highest power-to-weight ratios of any controlled bolting system

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PNEUMATIC SERIES

Torque Range
50-8500 ft. lbs.

- ✔ **PATENTED planetary gear reduction**
  Delivers one of the highest power-to-weight ratios of any pneumatic controlled bolting system
- ✔ **Smooth continuous flow of controlled torque**
  Eliminates destructive hammering
- ✔ **Lightweight ergonomic pistol grip design**
  Reduces operator strain and injury; resulting in increased productivity
- ✔ **Unmatched reliability and quality**
  Delivered by one of the most advanced engineered gear boxes on the market

www.radtorque.com

Operating Instructions

OPERATING INSTRUCTIONS

Dear Customer,

Many thanks for the confidence you have shown in us with the purchase of your new V-RAD power tool. Every RAD power tool is carefully tested and is subject to the strict quality controls of RAD Quality Assurance. However, the service life of any power tool is to a great degree dependent on yourself as the user. Please take account of the information contained in these operating instructions and the accompanying documents. The more care you exercise in handling your V-RAD power tool, the longer it will provide reliable service to you.

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1. PROPER USE

Caution

- This electric power tool is designed for tightening and loosening fasteners and other similar applications.
- The operator bears sole responsibility for any damage caused by inappropriate use.
- Generally recognized accident prevention regulations and the accompanying Safety Instructions must be observed.

2. GENERAL SAFETY INSTRUCTION

Caution

- Before using the power tool, read the accompanying Safety Instructions and these Operating Instructions carefully and thoroughly.
- Keep all of the documents supplied with the tool in a safe place and pass them on to the new owner if you part with the tool.

Operating Instructions

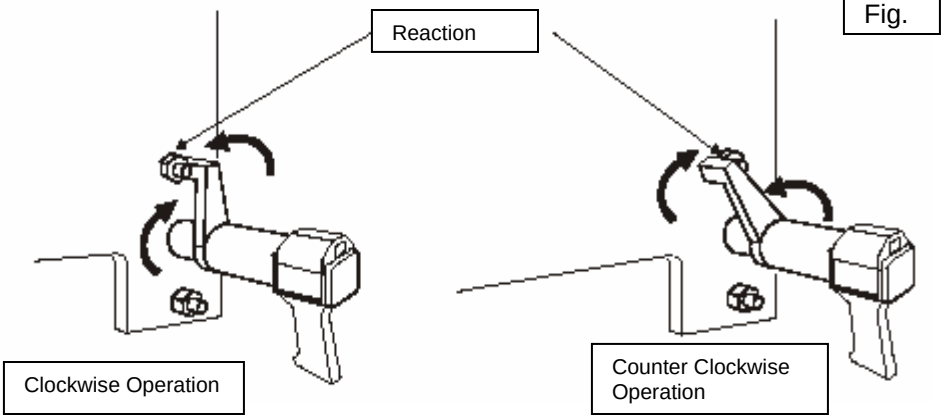
3. SPECIAL SAFETY INSTRUCTIONS

Caution

- Always keep electric motor and unit dry and away from moisture.
- Do not use any unit that has damaged parts or components.
- Do not expose the unit to excess heat.
- Do not attempt to disassemble the gear box or electrical motor.
- Do not use an adapter and do not run the tool through an inappropriate voltage source.
- Do not use the tool in any condition were a spark could cause an explosion.
- Make sure that the reaction arm provided fits the operation PROPERLY. If you are not reacting on the blade of the hockey stick shaped arm you are reacting incorrectly and should contact New World Technologies about a custom reaction arm.

WARNING: ALWAYS KEEP HANDS CLEAR OF THE REACTION ARM WHEN THE TOOL IS IN USE OR SERIOUS INJURY WILL RESULT.

Fig.



Operating Instructions

4. OPERATION

Your new V-RAD tool will come with a torque chart as seen in Figure 1.1 affixed to the gear box of the tool. The torque chart displays alpha and numeric characters that are dialed in on the tool that correspond to the torque values to the right. To select a desired torque, dial in your V-RAD by using the alpha and numeric selections on top of the V-RAD gun Figure 1.2. For example, for preset (G6) dial the alpha dial so that the black arrow underneath is pointing at the (G) and dial the numeric dial so that the arrow on top is pointing at the (6).

Warning

Do not attempt to run the tool with settings that are not displayed on the torque chart. Failure to do so could cause the tool to fail and void your warranty.

Sample Torque Chart

V-RAD 1000 Torque Chart (ft.lbs.)			
Setting	Torque	Setting	Torque
B2	320	E3	750
C2	350	F3	800
E2	450	G3	830
F2	500	D4	850
G2	530	E4	900
C3	550	C5	930
D3	620	F4	960
		G4	1020
Cal.Date 22/03/2006		Serial # Demo	

(Figure 1.1)

(Figure 1.2)

Operating Instructions

4. OPERATION (continued)

- To switch your V-RAD into forward and reverse, move the switch in the direction of the arrow that is shown in Figure 1.3

- On the top of the V-RAD there will be a selector switch (shown in Figure 1.4) that will show a picture of a drill bit on the left side. *This is correct position for this switch* If the switch is moved to the left and a picture of a hammer is shown on the right, the gun is set improperly.

- On the handle of your V-RAD there will be a small button (shown in Figure 1.5) that is used as a trigger locking mechanism and has been locked out for your safety. *Do not try to push this button in and enable this mechanism—it will put the user at risk of injury.*

(Figure 1.3)

(Figure 1.4)

(Figure 1.5)

5. ACCESSORIES

- Use original RAD accessories only.

- To assist in selecting the correct accessories, make sure that you take a note of the exact model of your tool and contact your RAD dealer.

6. REPAIRS

- Repairs to tools should only be carried out by a qualified RAD Service Technician and if otherwise warranty of tool will be void.

- Any RAD power tool in need of repair can be sent to the address below. Please attach a description of the fault to the tool.

V-RAD Limited Warranty

New Tool Warranty

Any new tool branded with the RAD name and purchased from New World Technologies Inc., or through one of its authorized distributors or agents, is warranted to the original purchaser against defects in materials and workmanship for a period of one (1) year from the date of original calibration. Electric drive components such as electric motors, switches, and batteries etc., are covered for a period of three (3) months from the date of original calibration. Under the terms of this warranty, New World Technologies Inc., at its option and F.O.B. either its factory or an authorized service center, will replace or repair for the original purchaser, free of charge, any part or parts, found upon examination by New World Technologies Inc., to be defective in material or workmanship or both. If any product or part is replaced or repaired under the terms of this warranty, that product or part will carry the remainder of the warranty from the date of original calibration.

Repaired Tool Warranty

Once a tool is beyond its new tool warranty, New World Technologies Inc., for a period of three (3) months from the date of repair, will replace or repair for the original purchaser, free of charge, any part or parts, found upon examination by New World Technologies Inc., to be defective in material or workmanship or both. If any product or part is replaced or repaired under the terms and conditions of this warranty, that product or part will carry the remainder of the warranty from the date of original repair.

To qualify for the above mentioned warranties, written notice to New World Technologies Inc. must be given immediately upon discovery of such defect, at which time New World Technologies Inc. will issue an authorization to return the tool. The defective item must promptly be returned to New World Technologies Inc. all freight charges prepaid. When returning a tool, the reaction arm/s being used with the tool must also be returned.

New World Technologies Inc.: Telephone: 1 800 983 0044 Email: info@radtorque.com

Exclusions from Warranty

At New World Technologies Inc.'s sole judgment tools or accessories that have been altered, damaged, misused, abused, badly worn due to excessive utilization, lost, or improperly maintained will NOT be covered under the terms of this warranty.

Tools returned without the reaction arm/s will not be covered under the terms of this warranty.
Consumable parts and accessories (such as extensions, reaction blanks/arms) are not covered under this warranty.

Tools that have been relabeled without prior written consent of New World Technologies Inc. will not be covered under this warranty.

Equipment and accessories not manufactured by New World Technologies Inc. (measuring equipment, etc.) are warranted only to the extent of the original manufacturer's warranty.

**There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose are limited to one year from date of calibration and to the extent permitted by law. Liability for consequential damages under any and all warranties are excluded to the extent exclusion is permitted by law.*

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